Hung-Jue Sue

List of Publications by Year in Descending Order

245 papers	9,183 citations	54 h-index	83 g-index
247 ext. papers	10,038 ext. citations	5 avg, IF	6.26 L-index

#	Paper	IF	Citations
245	Preparation of PEEK/MWCNT nanocomposites via MWCNT-induced interfacial crystallization mediated compatibilization. *Composites Science and Technology*, **2022**, 109298	8.6	0
244	Fracture Behavior of Polyrotaxane-Toughened Poly(Methyl Methacrylate).. *Langmuir*, **2022**,	4	3
243	Dynamic light scattering studies on ethylene-propylene copolymers in a hydrocarbon based oil. *Journal of Rheology*, **2022**, 66, 105-110	4.1	1
242	Preparation of thermally conductive but electrically insulated polypropylene containing copper nanowire. *Polymer*, **2021**, 236, 124317	3.9	3
241	Photopolymerized superhydrophobic hybrid coating enabled by dual-purpose tetrapodal ZnO for liquid/liquid separation. *Materials Horizons*, **2021**,	14.4	2
240	Well-dispersed poly(ether-ether-ketone)/multi-walled carbon nanotube nanocomposites prepared via a simple solution mixing approach. *Polymer International*, **2021**, 70, 1090	3.3	2
239	Preparation of Well-Exfoliated Poly(ethylene--vinyl acetate)/Zirconium Phosphate Nanocomposites. *Langmuir*, **2021**, 37, 4550-4561	4	7
238	Experimental observation and finite element method modeling on scratch-induced delamination of multilayer polymeric structures. *Polymer Engineering and Science*, **2021**, 61, 1742-1754	2.3	6
237	Effect of long-chain branching molar fraction on scratch behavior of polypropylene. *Journal of Applied Polymer Science*, **2021**, 138, 50993	2.9	
236	Effect of mold temperature and additive migration on scratch behavior of TPOs at elevated temperatures. *Polymer*, **2021**, 223, 123709	3.9	1
235	Evaluation of 1-dimensional nanomaterials release during electrospinning and thermogravimetric analysis. *Indoor Air*, **2021**, 31, 1967-1981	5.4	
234	Mechanical and scratch behaviors of polyrotaxane-modified poly(methyl methacrylate). *Journal of Applied Polymer Science*, **2021**, 138, 51237	2.9	4
233	High dielectric constant epoxy nanocomposites containing ZnO quantum dots decorated carbon nanotube. *Journal of Applied Polymer Science*, **2021**, 138, 49778	2.9	3
232	Manipulation of thick-walled PEEK bushing crystallinity and modulus via instrumented compression molding. *Journal of Applied Polymer Science*, **2021**, 138, 49930	2.9	1
231	High performance epoxy nanocomposites based on dual epoxide modified Zirconium phosphate nanoplatelets. *Polymer*, **2021**, 212, 123154	3.9	5
230	Critical challenges and advances in the carbon nanotubemetal interface for next-generation electronics. *Nanoscale Advances*, **2021**, 3, 942-962	5.1	13
229	Quantification of Long-Chain Branching Molar Fraction in Polypropylene. *Industrial & Engineering Chemistry Research*, **2021**, 60, 3770-3778	3.9	2

228	Fracture behavior of hybrid epoxy nanocomposites based on multi-walled carbon nanotube and core-shell rubber. *Nano Materials Science*, **2021**,	10.2	3
227	High dielectric constant epoxy nanocomposites based on metal organic frameworks decorated multi-walled carbon nanotubes. *Polymer*, **2020**, 207, 122913	3.9	7
226	Quantitative modeling of scratch behavior of amorphous polymers at elevated temperatures. *Polymer*, **2020**, 197, 122504	3.9	8
225	Enhancing scratch damage resistance of PMMA via layer assembly with PVDF: Numerical modeling prediction and experimental verification. *Polymer*, **2020**, 194, 122382	3.9	7
224	Tuning the composition and morphology of carbon nanotube-copper interface. *Carbon*, **2020**, 157, 583-593	10.4	15
223	The influence of processing conditions on the mechanical properties of poly(aryl-ether-ketone)/polybenzimidazole blends. *Journal of Applied Polymer Science*, **2020**, 137, 48966	2.9	3
222	Experimental and FEM analysis of mar behavior on amorphous polymers. *Wear*, **2020**, 444-445, 203155	3.5	4
221	Fabrication of Light-Weight and Highly Conductive Copper□Carbon Nanotube Core□Shell Fibers Through Interface Design. *Advanced Materials Interfaces*, **2020**, 7, 2000779	4.6	7
220	Copper(I)-alkylamine mediated synthesis of copper nanowires. *Nanoscale*, **2020**, 12, 17437-17449	7.7	2
219	Manipulation of Fracture Behavior of Poly(methyl methacrylate) Nanocomposites by Interfacial Design of a Metal-Organic-Framework Nanoparticle Toughener. *Langmuir*, **2020**, 36, 11938-11947	4	5
218	□Zirconium Phosphate Nanoplatelets with Covalent Modifiers for Exfoliation in Organic Media. *Langmuir*, **2020**, 36, 11948-11956	4	8
217	Ultralong Electrospun Copper□Carbon Nanotube Composite Fibers for Transparent Conductive Electrodes with High Operational Stability. *ACS Applied Electronic Materials*, **2020**, 2, 2692-2698	4	9
216	3D printing of in-situ curing thermally insulated thermosets. *Manufacturing Letters*, **2019**, 21, 1-6	4.5	8
215	Non-Solvent Fractionation of Lignin Enhances Carbon Fiber Performance. *ChemSusChem*, **2019**, 12, 3249-3256	8.5	12
214	Numerical modeling of essential work of fracture on ductile polymeric films. *Engineering Fracture Mechanics*, **2019**, 212, 210-220	4.2	7
213	Effect of molecular weight on scratch and abrasive wear behaviors of thermoplastic polyurethane elastomers. *Polymer*, **2019**, 169, 124-130	3.9	15
212	Epoxy nanocomposites with reduced coefficient of thermal expansion. *Journal of Applied Polymer Science*, **2019**, 136, 47703	2.9	8
211	Experimental and numerical determination of adhesive strength in semi-rigid multi-layer polymeric systems. *Polymer Testing*, **2019**, 75, 85-92	4.5	11

210	Mechanical behavior of self-curing epoxy nanocomposites. *Polymer*, **2019**, 179, 121631	3.9	10
209	Scratch behavior of model epoxy resins with different crosslinking densities. *Materials and Design*, **2019**, 182, 107965	8.1	13
208	Modulation versus Templating: Fine-Tuning of Hierarchally Porous PCN-250 Using Fatty Acids To Engineer Guest Adsorption. *Angewandte Chemie - International Edition*, **2019**, 58, 12425-12430	16.4	23
207	Modulation versus Templating: Fine-Tuning of Hierarchally Porous PCN-250 Using Fatty Acids To Engineer Guest Adsorption. *Angewandte Chemie*, **2019**, 131, 12555-12560	3.6	2
206	Scratch damage behaviors of PVDF/PMMA multilayered materials: Experiments and finite element modeling. *Polymer*, **2019**, 182, 121829	3.9	8
205	Solution-Processable Oxidation-Resistant Copper Nanowires Decorated with Alkyl Ligands. *ACS Applied Nano Materials*, **2019**, 2, 7775-7784	5.6	8
204	Effect of annealing on the viscoelastic behavior of poly(ether-ether-ketone). *Polymer*, **2019**, 160, 231-237	3.9	21
203	Effect of Blend Composition on Scratch Behavior of Polystyrene/Poly(2,6-dimethyl-1,4-phenyleneoxide) Blends. *Macromolecular Chemistry and Physics*, **2019**, 220, 1800371	2.6	7
202	Physical correlation between abrasive wear performance and scratch resistance in model polyurethane elastomers. *Wear*, **2019**, 418-419, 281-289	3.5	14
201	Synthesis of oxidation-resistant electrochemical-active copper nanowires using phenylenediamine isomers. *Materials and Design*, **2019**, 162, 154-161	8.1	14
200	Porous SnO-Cu O nanocomposite thin film on carbon nanotubes as electrodes for high performance supercapacitors. *Nanotechnology*, **2019**, 30, 015401	3.4	26
199	Fabrication of Scratch Resistant Polylactide with Multilayered Shish-kebab Structure through Layer-Multiplying Coextrusion. *Industrial & Engineering Chemistry Research*, **2018**, 57, 4320-4328	3.9	12
198	Effect of moisture exposure on scratch behavior of model polyurethane elastomers. *Polymer*, **2018**, 137, 209-221	3.9	11
197	FEM Modeling on Scratch Behavior of Multiphase Polymeric Systems. *Tribology Letters*, **2018**, 66, 1	2.8	2
196	Testing and evaluation of mar visibility resistance for polymer films. *Polymer Testing*, **2018**, 69, 238-244	4.5	10
195	Epoxy Nanocomposites Containing Zeolitic Imidazolate Framework-8. *ACS Applied Materials & Interfaces*, **2018**, 10, 1250-1257	9.5	36
194	Influence of wet contact conditions on the multidirectional fretting behavior of Polyetheretherketone and composites. *Polymer*, **2017**, 108, 462-475	3.9	11
193	Scratch behavior of epoxy coating containing self-assembled zirconium phosphate smectic layers. *Polymer*, **2017**, 112, 252-263	3.9	33

192	The Effect of Nanoparticle Functionalization on Lubrication Performance of Nanofluids Dispersing Silica Nanoparticles in an Ionic Liquid. *Journal of Tribology*, **2017**, 139,	1.8	11
191	Interfacial Phenomena and Mechanical Behavior of Polyetheretherketone/Polybenzimidazole Blend under Hygrothermal Environment. *Journal of Physical Chemistry B*, **2017**, 121, 5396-5406	3.4	9
190	Preparation of epoxy nanocomposites containing well-dispersed graphene nanosheets. *Composites Science and Technology*, **2017**, 146, 161-168	8.6	95
189	Scratch behavior of multilayer polymeric coating systems. *Materials and Design*, **2017**, 128, 143-149	8.1	24
188	Molecular weight and uniformity define the mechanical performance of lignin-based carbon fiber. *Journal of Materials Chemistry A*, **2017**, 5, 12740-12746	13	56
187	Aqueous lubrication of poly(etheretherketone) via surface-initiated polymerization of electrolyte monomers. *Polymer*, **2017**, 116, 549-555	3.9	16
186	Fundamental understanding on scratch behavior of polymeric laminates. *Wear*, **2017**, 380-381, 203-216	3.5	26
185	Bioinspired Polylactide Based on the Multilayer Assembly of Shish-Kebab Structure: A Strategy for Achieving Balanced Performances. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 3063-3073	8.3	18
184	Tensile properties and electrical conductivity of epoxy composite thin films containing zinc oxide quantum dots and multi-walled carbon nanotubes. *Carbon*, **2017**, 115, 18-27	10.4	37
183	Scratch behavior of model polyurethane elastomers containing different soft segment types. *Materials and Design*, **2017**, 132, 419-429	8.1	36
182	1D copper nanowires for flexible printable electronics and high ampacity wires. *Nanoscale*, **2017**, 9, 1310[illegible]1311	[illegible]	31
181	Tunable Thermochromism of Multifunctional Charge-Transfer-Based Supramolecular Materials Assembled in Water. *Chemistry of Materials*, **2017**, 29, 9937-9945	9.6	37
180	A Multidimensional Scaling Analysis of Surface Perceptual Parameters on Scratch and Mar Visibility Resistance in Polymers. *SAE International Journal of Materials and Manufacturing*, **2017**, 10, 94-106	1	6
179	Experimental and FEM analysis of scratch behavior on polypropylene thin films: Effect of film orientation and ethylene monomer content. *Tribology International*, **2016**, 103, 412-422	4.9	15
178	Flame retardation behavior of polybenzoxazine/□ZrP nanocomposites. *RSC Advances*, **2016**, 6, 73485-73495	3.7	17
177	Hygrothermal behavior of polybenzimidazole. *Polymer*, **2016**, 93, 88-98	3.9	17
176	Rheology of electrostatically tethered nanoplatelets and multi-walled carbon nanotubes in epoxy. *Polymer*, **2016**, 84, 223-233	3.9	15
175	Development of a hydroxyapatite-poly(d,l-lactide-co-glycolide) infiltrated carbon foam for orthopedic applications. *Carbon*, **2016**, 98, 106-114	10.4	15

174	High-performance photocatalyst based on nanosized ZnO-reduced graphene oxide hybrid for removal of Rhodamine B under visible light irradiation. *AIMS Materials Science*, **2016**, 3, 1410-1425	1.9	26
173	One-step synthesis of nitrogen-iron coordinated carbon nanotube catalysts for oxygen reduction reaction. *Journal of Power Sources*, **2016**, 313, 128-133	8.9	14
172	Effect of thermal history on scratch behavior of multi-phase styrenic-based copolymers. *Tribology International*, **2016**, 99, 248-257	4.9	8
171	Highly efficient oil–water separators based on dual superhydrophobic and superoleophilic properties of multiwall-carbon nanotube filtration films. *RSC Advances*, **2016**, 6, 12431-12434	3.7	12
170	Physical assessment of essential work of fracture parameters based on m-LLDPE blown films. *Polymer*, **2016**, 96, 104-111	3.9	9
169	The influence of surface properties on sliding contact temperature and friction for polyetheretherketone (PEEK). *Polymer*, **2016**, 103, 397-404	3.9	57
168	Effect of color, gloss, and surface texture perception on scratch and mar visibility in polymers. *Materials and Design*, **2015**, 83, 528-535	8.1	26
167	Multifunctional polymer/ZnO nanocomposites **2015**, 858-874		1
166	Solution-Processable Core-Extended Quinacridone Derivatives with Intact Hydrogen Bonds. *Organic Letters*, **2015**, 17, 3146-9	6.2	22
165	Rubber particle size and type effects on scratch behavior of styrenic-based copolymers. *Polymer*, **2015**, 63, 71-81	3.9	16
164	Mechanical characterization and fractographic study of epoxy–kaolin polymer nanocomposites. *Composite Structures*, **2015**, 133, 70-76	5.3	7
163	Confined distribution of conductive particles in polyvinylidene fluoride-based multilayered dielectrics: Toward high permittivity and breakdown strength. *Carbon*, **2015**, 84, 355-364	10.4	78
162	Highly effective anti-corrosion epoxy spray coatings containing self-assembled clay in smectic order. *Journal of Materials Chemistry A*, **2015**, 3, 2669-2676	13	59
161	Effect of processing parameters on essential work of fracture toughness of LLDPE blown films. *Polymer Engineering and Science*, **2015**, 55, 2403-2413	2.3	9
160	Multinuclear solid-state NMR investigation of the moisture distribution in PEEK-PBI and PEKK-PBI blends. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	11
159	High-performance proton exchange membranes for direct methanol fuel cells based on a SPEEK/polybenzoxazine crosslinked structure. *RSC Advances*, **2015**, 5, 47284-47293	3.7	27
158	Spray-coated epoxy barrier films containing high aspect ratio functionalized graphene nanosheets. *RSC Advances*, **2015**, 5, 102633-102642	3.7	15
157	Interlayer structure and self-healing in suspensions of brush-stabilized nanoplatelets with smectic order. *Soft Matter*, **2015**, 11, 954-71	3.6	11

156	The Effect of Surface Chemistry on the Glass Transition of Polycarbonate Inside Cylindrical Nanopores. *ACS Macro Letters*, **2015**, 4, 151-154	6.6	21
155	Polyolefin soluble polyisobutylene oligomer-bound metallophthalocyanine and azo dye additives. *Journal of Polymer Science Part A*, **2014**, 52, 545-551	2.5	11
154	Quantitative modeling of scratch-induced deformation in amorphous polymers. *Polymer*, **2014**, 55, 6152-6166	3.9	33
153	Solution Processable Iridescent Self-Assembled Nanoplatelets with Finely Tunable Interlayer Distances Using Charge- and Sterically Stabilizing Oligomeric Polyoxyalkyleneamine Surfactants. *Chemistry of Materials*, **2014**, 26, 1528-1537	9.6	33
152	Mechanical reinforcement of epoxy with self-assembled synthetic clay in smectic order. *ACS Applied Materials & Interfaces*, **2014**, 6, 10188-95	9.5	31
151	High-temperature steam-treatment of PBI, PEEK, and PEKK polymers with H2O and D2O: A solid-state NMR study. *Polymer*, **2014**, 55, 4577-4585	3.9	30
150	Large-scale self-assembled zirconium phosphate smectic layers via a simple spray-coating process. *Nature Communications*, **2014**, 5, 3589	17.4	81
149	Scratch behavior of extrusion and adhesive laminated multilayer food packaging films. *Polymer Engineering and Science*, **2014**, 54, 71-77	2.3	14
148	Crystallization behavior and morphological characterization of poly(ether ether ketone). *Polymer*, **2014**, 55, 5255-5265	3.9	55
147	Effect of surface modifier on flow properties of epoxy suspensions containing model plate-like nanoparticles. *Rheologica Acta*, **2014**, 53, 571-583	2.3	15
146	Tunable Lyotropic Photonic Liquid Crystal Based on Graphene Oxide. *ACS Photonics*, **2014**, 1, 79-86	6.3	50
145	Rheology of disentangled multiwalled carbon nanotubes dispersed in uncured epoxy fluid. *Journal of Physical Chemistry B*, **2014**, 118, 362-71	3.4	17
144	Self-assembly of Au nanoparticles on graphene sheets as a catalyst with controlled grafting density and high reusability. *RSC Advances*, **2014**, 4, 61823-61830	3.7	18
143	Phosphate-enhanced cytotoxicity of zinc oxide nanoparticles and agglomerates. *Toxicology Letters*, **2014**, 225, 177-84	4.4	21
142	Effect of moisture exposure on scratch resistance of PMMA. *Tribology International*, **2014**, 69, 46-51	4.9	38
141	Thermally stable and highly conductive free-standing hybrid films based on reduced graphene oxide. *Journal of Materials Science*, **2014**, 49, 380-391	4.3	6
140	Facile decoration of Au nanoparticles on reduced graphene oxide surfaces via a one-step chemical functionalization approach. *Journal of Materials Chemistry A*, **2013**, 1, 10783	13	38
139	Electrically conductive superhydrophobic octadecylamine-functionalized multiwall carbon nanotube films. *Carbon*, **2013**, 53, 366-373	10.4	35

138	Scratch behavior of polymeric materials **2013**, 513-550		2
137	Refined fixture design for effective essential work of fracture toughness characterization of m-LLDPE thin films. *Polymer Testing*, **2013**, 32, 256-264	4.5	16
136	Influence of Trace Amount of Well-Dispersed Carbon Nanotubes on Structural Development and Tensile Properties of Polypropylene. *Macromolecules*, **2013**, 46, 463-473	5.5	46
135	Acid-mediated isolation of individually dispersed SWCNTs from electrostatically tethered nanoplatelet dispersants. *Carbon*, **2013**, 56, 374-382	10.4	7
134	Rheological and thermal behaviors of commercial poly(aryletherketone)s. *Polymer Engineering and Science*, **2013**, 53, 651-661	2.3	24
133	High-temperature steam-treatment of PBI, PEKK, and a PEKK-PBI Blend: A solid-state NMR and IR spectroscopic study. *Journal of Applied Polymer Science*, **2013**, 128, 4395-4404	2.9	12
132	Minimization of surface friction effect on scratch-induced deformation in polymers. *Polymer Engineering and Science*, **2013**, 53, 1405-1413	2.3	18
131	Delamination toughness of fiber-reinforced composites containing a carbon nanotube/polyamide-12 epoxy thin film interlayer. *Polymer*, **2012**, 53, 37-42	3.9	53
130	Effect of high temperature annealing on scratch behavior of acrylonitrile styrene acrylate copolymers. *Polymer*, **2012**, 53, 604-612	3.9	30
129	Analysis of scratch-induced damages in multi-layer packaging film systems. *Journal of Materials Science*, **2012**, 47, 1389-1398	4.3	14
128	Electrostatically controlled isolation of debundled single-walled carbon nanotubes from nanoplatelet dispersant. *Journal of Materials Chemistry*, **2012**, 22, 6156		7
127	Quality of olive oil reformulated MRE entrē packaged in oxygen-absorbing film. *LWT - Food Science and Technology*, **2012**, 45, 191-197	5.4	4
126	Molecular Weight Effect on Scratch Properties of Polypropylene. *Seikei-Kakou*, **2012**, 24, 221-229	0	1
125	Evaluation of Packaging Film Mechanical Integrity Using a Standardized Scratch Test Instrument. *Packaging Technology and Science*, **2012**, 25, 85-96	2.3	8
124	Synthesis and Fabrication of Multifunctional Nanocomposites: Stable Dispersions of Nanoparticles Tethered with Short, Dense and Polydisperse Polymer Brushes in Poly(methyl methacrylate). *Advanced Functional Materials*, **2012**, 22, 3614-3624	15.6	29
123	Rubber content effect on scratch behavior in acrylonitrile-styrene-acrylate copolymers. *Journal of Applied Polymer Science*, **2012**, 126, 1088-1096	2.9	11
122	Effect of Asymmetric Constitutive Behavior on Scratch-Induced Deformation of Polymers. *Tribology Letters*, **2012**, 47, 113-122	2.8	24
121	Electrical conductivity and thermal stability of polypropylene containing well-dispersed multi-walled carbon nanotubes disentangled with exfoliated nanoplatelets. *Carbon*, **2012**, 50, 4711-4721	10.4	67

120	Template-assisted assembly of ZnO nanorods with postdeposition growth. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2012**, 30, 06FF01	1.3	5
119	Solid-state dye-sensitized solar cells based on ZnO nanoparticle and nanorod array hybrid photoanodes. *Nanoscale Research Letters*, **2011**, 6, 517	5	41
118	Electrical conductivity of well-exfoliated single-walled carbon nanotubes. *Carbon*, **2011**, 49, 5124-5131	10.4	9
117	Influence of humidity on the scratch behavior of polystyrene□crylonitrile random copolymers. *Journal of Materials Science*, **2011**, 46, 5790-5797	4.3	8
116	Determination of epoxy coating wet-adhesive strength using a standardized ASTM/ISO scratch test **2011**, 8, 255-263		18
115	Electrical conductivity and fracture behavior of epoxy/polyamide-12/multiwalled carbon nanotube composites. *Polymer Engineering and Science*, **2011**, 51, 2245-2253	2.3	41
114	Effects of acrylonitrile content and molecular weight on the scratch behavior of styrene-acrylonitrile random copolymers. *Polymer Engineering and Science*, **2011**, 51, 2282-2294	2.3	33
113	Colloidal crystallization of surfactant-free ZnO quantum dots. *ChemPhysChem*, **2011**, 12, 3533-8	3.2	3
112	Interlaminar fracture toughness of woven fabric composite laminates with carbon nanotube/epoxy interleaf films. *Journal of Applied Polymer Science*, **2011**, 121, 2394-2405	2.9	46
111	ZnO and conjugated polymer bulk heterojunction solar cells containing ZnO nanorod photoanode. *Nanotechnology*, **2011**, 22, 285401	3.4	32
110	Quantitative scratch visibility assessment of polymers based on Erichsen and ASTM/ISO scratch testing methodologies. *Polymer Testing*, **2011**, 30, 633-640	4.5	26
109	Effect of constitutive behavior on scratch visibility resistance of polymers□A finite element method parametric study. *Wear*, **2011**, 270, 751-759	3.5	43
108	Scratch resistance of high performance polymers. *Tribology International*, **2011**, 44, 1032-1046	4.9	87
107	Contrast-based evaluation of mar resistance of thermoplastic olefins. *Tribology International*, **2011**, 44, 1024-1031	4.9	23
106	Hindrance function for sedimentation and creaming of colloidal disks. *Physical Review E*, **2010**, 81, 026312	2.4	27
105	Single-walled carbon nanotube alignment by grating-guided electrostatic self-assemblya). *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2010**, 28, 1318-1321	1.3	1
104	Glass transition temperature changes of melt-blended polymer nanocomposites containing finely dispersed ZnO quantum dots. *Soft Matter*, **2010**, 6, 4482	3.6	17
103	Toughening of Epoxies with Block Copolymer Micelles of Wormlike Morphology. *Macromolecules*, **2010**, 43, 7238-7243	5.5	186

102	A surfactant dispersed SWCNT-polystyrene composite characterized for electrical and mechanical properties. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 842-849	8.4	31
101	Simple Approach for Preparation of Epoxy Hybrid Nanocomposites Based on Carbon Nanotubes and a Model Clay. *Chemistry of Materials*, **2010**, 22, 3773-3778	9.6	75
100	Epoxy/Carbon Nanotube Nanocomposites **2010**, 185-211		4
99	Mechanical Modeling of Scratch Behavior of Polymeric Coatings on Hard and Soft Substrates. *Tribology Letters*, **2010**, 37, 159-167	2.8	48
98	Quantitative evaluation of scratch visibility resistance of polymers. *Applied Surface Science*, **2010**, 256, 6324-6329	6.7	57
97	Stabilization and control of phase morphology of PA/SAN blends via incorporation of exfoliated clay. *Polymer*, **2010**, 51, 4231-4237	3.9	30
96	Raman microscopy of residual strains in carbon nanotube/epoxy composites. *Carbon*, **2010**, 48, 1750-1756	6.4	36
95	Partially cured epoxy/SWCNT thin films for the reinforcement of vacuum-assisted resin-transfer-molded composites. *Carbon*, **2010**, 48, 2364-2367	10.4	25
94	Surfactant-free Colloidal Crystal of ZnO Quantum Dots. *Materials Research Society Symposia Proceedings*, **2009**, 1207, 1		
93	Solid-state dye-sensitized solar cell based on semiconducting nanomaterials. *Journal of Vacuum Science & Technology B*, **2009**, 27, 3073		4
92	Effect of Nanoplatelets on the Rheological Behavior of Epoxy Monomers. *Macromolecular Materials and Engineering*, **2009**, 294, 103-113	3.9	63
91	B-staged epoxy/single-walled carbon nanotube nanocomposite thin films for composite reinforcement. *Journal of Applied Polymer Science*, **2009**, 112, 290-298	2.9	32
90	Single-walled carbon-nanotube dispersion with electrostatically tethered nanoplatelets. *Small*, **2009**, 5, 2692-7	11	21
89	Scratch behavior of epoxy nanocomposites containing □zirconium phosphate and core-shell rubber particles. *Polymer Engineering and Science*, **2009**, 49, 483-490	2.3	45
88	Antimicrobial efficacy of zinc oxide quantum dots against Listeria monocytogenes, Salmonella Enteritidis, and Escherichia coli O157:H7. *Journal of Food Science*, **2009**, 74, M46-52	3.4	346
87	Effect of oxygen-absorbing packaging on the shelf life of a liquid-based component of military operational rations. *Journal of Food Science*, **2009**, 74, E167-76	3.4	22
86	The effect of guest molecular architecture and host crystallinity upon the mechanism of the intercalation reaction. *Journal of Colloid and Interface Science*, **2009**, 333, 503-9	9.3	45
85	Effect of crosslink density on fracture behavior of model epoxies containing block copolymer nanoparticles. *Polymer*, **2009**, 50, 4683-4689	3.9	85

84	Understanding of scratch-induced damage mechanisms in polymers. *Polymer*, **2009**, 50, 4056-4065	3.9	159
83	Strain rate effect on toughening of nano-sized PEP–PEO block copolymer modified epoxy. *Acta Materialia*, **2009**, 57, 2691-2701	8.4	77
82	Tuning of the Dispersion of Ligand-Free ZnO Quantum Dots in Polymer Matrices with Exfoliated Nanoplatelets. *Macromolecules*, **2009**, 42, 1665-1671	5.5	20
81	Block Copolymer Toughened Epoxy: Role of Cross-Link Density. *Macromolecules*, **2009**, 42, 2333-2335	5.5	140
80	Polypropylene Nanocomposites Based on Designed Synthetic Nanoplatelets. *Chemistry of Materials* , **2009**, 21, 1154-1161	9.6	38
79	Tunable ultraviolet emission of ZnO quantum dots in transparent poly(methyl methacrylate). *Applied Physics Letters*, **2009**, 94, 253106	3.4	27
78	Stable smectic phase in suspensions of polydisperse colloidal platelets with identical thickness. *Physical Review E*, **2009**, 80, 041704	2.4	59
77	Microdeformation and Fracture Mechanisms in Polyamide-6/Organoclay Nanocomposites. *Macromolecules*, **2008**, 41, 193-202	5.5	59
76	Optical Properties of ZnO Quantum Dots in Epoxy with Controlled Dispersion. *Journal of Physical Chemistry C*, **2008**, 112, 16002-16010	3.8	88
75	Preparation of Electrically Conductive Polystyrene/Carbon Nanofiber Nanocomposite Films. *Journal of Chemical Education*, **2008**, 85, 1105	2.4	11
74	Fracture Toughness of Woven Carbon Fiber/Epoxy Laminates with Carbon Nanotube/Epoxy Thin Films **2008**,		2
73	Capture of phosphopeptides using alpha-zirconium phosphate nanoplatelets. *Analytical Chemistry*, **2008**, 80, 5542-9	7.8	48
72	Nanocavitation in Self-Assembled Amphiphilic Block Copolymer-Modified Epoxy. *Macromolecules*, **2008**, 41, 7616-7624	5.5	167
71	Scratch behavior of polymeric materials. *Tribology and Interface Engineering Series*, **2008**, 354-373		2
70	On Failure Mechanisms in Flip Chip Assembly—Part 1: Short-Time Scale Wave Motion. *Journal of Electronic Packaging, Transactions of the ASME*, **2008**, 130,	2	5
69	On Failure Mechanisms in Flip Chip Assembly—Part 2: Optimal Underfill and Interconnecting Materials. *Journal of Electronic Packaging, Transactions of the ASME*, **2008**, 130,	2	3
68	Influence of surface roughness and contact load on friction coefficient and scratch behavior of thermoplastic olefins. *Applied Surface Science*, **2008**, 254, 4494-4499	6.7	99
67	Scratch behavior of soft thermoplastic olefins: effects of ethylene content and testing rate. *Journal of Materials Science*, **2008**, 43, 1357-1365	4.3	23

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